## SUBJECT INDEX


| | No. | Page |
|---|---|---|
| Abdomen | 5 | 265, 316 |
| Abdominal restraint | 5 | 242 |
| Acceleration | 5 | 301 |
| ratio | 5 | 288 |
| Analysis | 5 | 235 |
| Anthropometry | 3 | 131 |
| Apparatus | 5 | 301, 306, 318 |
| Audition | | |
| perception of numerosity | 4 | 187 |
| verbal and non-verbal warning signals | 4 | 187 |
| Authors (Biographical sketches of) | 1 | 57 |
| | 2 | 105 |
| | 3 | 177 |
| | 4 | 223 |
| | 5 | 331 |
| | 6 | 401 |
| Automobile | 6 | 375 |
| Background, visual | 6 | 362 |
| Backrest | 3 | 125 |
| Behavior, timing | 4 | 217 |
| Bibliographies | | |
| center of gravity of human body | 3 | 131 |
| Russian literature on human factors | 3 | 107 |
| Body, human | | |
| center of gravity of | 3 | 131 |
| position of | 5 | 260, 265 |
| restrained | 5 | 241 |
| stabilization of | 3 | 125 |
| unrestrained | 5 | 237 |
| Body movement | 5 | 244 |
| Buffeting | 5 | 275 |
| Center of gravity of human body | 3 | 131 |
| Chair | 5 | 260 |
| equilibrium | 5 | 317 |
| Chest | 5 | 265, 266, 267, 268, 316 |
| Coding, color | 6 | 355 |
| Color coding | 6 | 355 |
| Computer | 2 | 79 |
| motivational problems in man-computer operations | 3 | 171 |
| Contrast | 6 | 362 |
| Controllability | 6 | 375 |
| Controls | | |
| loadings and anticipatory timing behavior | 4 | 217 |
| Damping | 5 | 238, 315 |
| Deformation | 5 | 255 |
| Detection | | |
| auditory | 4 | 187 |
| visual | 3 | 149 |
| Displacement | 5 | 261 |
| relative | 5 | 246, 248 |
| Displays | | |
| visual monitoring of | 3 | 149 |
| | 4 | 181, 201 |
| Elasticity | 5 | 237 |
| Energy | 5 | 248 |
| Environment | | |
| noise, and warning signals | 4 | 187 |
| Equilibrium | 5 | 320 |
| Equipment | 5 | 234, 255, 292 |
| Errors | 5 | 261 |
| Feedback | | |
| in system analysis | 4 | 209 |
| of auditory information | 4 | 187 |
| proprioceptive | 4 | 217 |
| Force | 5 | 236, 248 |
| of arm extension | 3 | 125 |
| Frequency | 5 | 227, 282 |
| natural | 5 | 316 |
| Glare | 6 | 339 |
| Human factors | | |
| integration in industry | 2 | 93 |
| literature (Russian) | 3 | 107 |
| role in industry | 2 | 101 |
| Impedance | 5 | 227, 228, 247, 315 |
| Information, handling of | 6 | 367 |
| Instrumentation | 5 | 234, 277, 292 |
| Isolation | 5 | 301 |
| Knowledge of results | | |
| auditory perception of numerosity | 4 | 187 |
| Learning | 3 | 159 |
| Leg, human | 5 | 301 |
| Man-machine system interactions | 6 | 389 |
| Mass | 5 | 229, 238 |
| effective | 5 | 231 |
| Mathematical statistics | 2 | 85 |
| Measurements | 5 | 279 |
| pressure | 5 | 279 |
| Methodology | 5 | 306 |
| task analysis | 6 | 381 |
| Monitoring | | |
| effect of post-detection response complexity | 4 | 201 |
| of complex displays | 3 | 149 |
| probability of detection and response speed | 4 | 181 |
| Monkey | 5 | 289 |

| | No. | Page |
|---|---|---|
| Motion | | |
| random | 5 | 328 |
| sinusoidal | 5 | 255, 328 |
| Motivation | | |
| in human-computer operations | 3 | 171 |
| Movement | | |
| body | 5 | 244 |
| perceived | 6 | 349 |
| Noise | | |
| verbal and non-verbal warning signals | 4 | 187 |
| Numerosity | | |
| auditory perception of | 4 | 187 |
| Observations from moon | 6 | 338 |
| Organization | | |
| variables in man-machine systems | 4 | 209 |
| Pelvis | 5 | 265, 266, 271 |
| Performance | 5 | 315, 320, 329 |
| communication | 2 | 75 |
| measures | | |
| coordinality | 2 | 76 |
| Phase angle | 5 | 236, 238, 266, 268, 278, 287, 288 |
| Pitch | 5 | 321 |
| Population stereotype | 6 | 397 |
| Position | 5 | 276, 288 |
| Posture | 5 | 238, 260, 265, 267, 268, 276, 315 |
| Pressure | 5 | 275, 278 |
| colon | 5 | 283, 284, 285, 286 |
| measurements of | 5 | 279 |
| stomach | 5 | 286 |
| Pressure suit | 5 | 243 |
| Procedures | 5 | 255, 294, 306, 307, 319, 327 |
| learning and retention | 3 | 159 |
| Proprioception | | |
| in anticipatory timing behavior | 4 | 217 |
| Random motion | 5 | 328 |
| Rate, information handling | 6 | 367 |
| Rationalism | 2 | 81 |
| Reaction | 5 | 305, 308 |
| Research | | |
| system and analysis | 4 | 209 |
| Resolution | | |
| visual | 6 | 336 |
| Resonance | 5 | 230, 289, 298, 315 |
| Response | 5 | 308 |
| keyboard | 2 | 77 |
| methods | 2 | 77 |
| Response—*continued* | | |
| recording | 2 | 77 |
| vocal | 2 | 77 |
| Restraint | 5 | 241 |
| abdominal | 5 | 242 |
| and force of arm extension | 3 | 125 |
| Retention | | |
| in part-task and flight training | 3 | 159 |
| Roll | 5 | 322 |
| Russian literature | | |
| human factors engineering | 3 | 107 |
| Scaling | 5 | 329 |
| Scientific method | 2 | 81 |
| Search | 6 | 359 |
| Semi-supine | 5 | 288 |
| Shake table | 5 | 259 |
| Signal detection | | |
| in vigilance | 3 | 149 |
| | 4 | 181, 201 |
| verbal and non-verbal warning signals | 4 | 187 |
| Simulation | 1 | 28 |
| computer | 2 | 79 |
| of man-machine systems | 4 | 209 |
| Simulator, flight | 3 | 159 |
| Sinusoidal motion | 5 | 255, 328 |
| Sitting position | 5 | 227, 288 |
| Skills development | | |
| motivational factors, man-computer operations | 3 | 171 |
| Speech | | |
| and non-verbal warning signals | 4 | 187 |
| Spring system | 5 | 229 |
| damper | 5 | 233 |
| Standing position | 5 | 227 |
| Stimuli | | |
| auditory | 4 | 187 |
| closure rate | 6 | 343 |
| sequential | 6 | 367 |
| size | 6 | 349 |
| visual | 6 | 343, 367 |
| Strain | 5 | 263, 265, 266, 267, 268 |
| Strain gauge | 5 | 256 |
| Strength | | |
| of arm extension | 3 | 125 |
| Stress | 5 | 263, 315 |
| Subjects | 5 | 240, 281 |
| Suit, pressure | 5 | 243 |
| Switch, thumbwheel | 6 | 397 |
| Systems | | |
| analysis | 4 | 209 |
| human factors engineering and modeling of | 1 | 11, 17, 29 |
| | 2 | 59 |
| need for | 1 | 14 |
| | 2 | 71 |
| probabilistic information processing | 2 | 68 |
| research | 2 | 62 |
| | 4 | 209 |

| | No. | Page |
|---|---|---|
| Systems—*continued* | | |
| research—*continued* | | |
| methods | 1 | 37 |
| | 2 | 66 |
| SAGE | 3 | 171 |
| selection of | 1 | 23 |
| taxonomy | 4 | 209 |
| Task | | |
| analysis | 6 | 381 |
| effectiveness | 6 | 381 |
| Taxonomy | | |
| of man-machine systems | 4 | 211 |
| Terminology | 5 | 327 |
| Test method | 5 | 234 |
| Theory | | |
| and observation | 2 | 86 |
| arousal in vigilance | 4 | 201 |
| Thorax | 5 | 316 |
| Time-sharing | | |
| in part-task and flight training | 3 | 159 |
| Timing behavior | | |
| anticipatory | 4 | 217 |
| Tolerance | 5 | 248 |
| subjective | 5 | 247 |
| Tracking | | |
| discrete, anticipatory timing behavior | 4 | 217 |
| discrete, proprioceptive feedback | 4 | 217 |
| in-flight simulator tasks | 3 | 159 |
| Trainers | | |
| part-task and flight | 3 | 159 |
| procedures | 3 | 159 |
| Transmission | 5 | 245 |
| Vibration | 5 | 227, 255, 291, 301, 305, 315, 321, 325 |
| effects | 5 | 325 |
| forced | 5 | 255 |
| head | 5 | 298 |
| terminology | 5 | 327 |
| theory | 5 | 228 |
| Vigilance | | |
| arousal theory | 4 | 201 |
| effect of repeated sessions on | 3 | 149 |
| post-detection response complexity | 4 | 201 |
| probability of detection and response speed | 4 | 181 |
| Visual acuity | 5 | 291, 311 |
| Visual displays | | |
| monitoring of | 4 | 149, 181, 201 |
| Visual requirements | | |
| lunar landing | 6 | 335 |
| Warning signals | | |
| verbal and non-verbal | 4 | 187 |


## AUTHOR INDEX


| | Page |
|---|---|
| ADAMS, J. A. | 149, 159, 217 |
| ARMSBY, D. H. | 381 |
| BAKER, C. A. | 343, 349 |
| BENNETT, C. A. | 101 |
| BURROWS, A. A. | 187 |
| CALDWELL, L. S. | 125 |
| CHRISTENSEN, J. M. | 7 |
| CLARK, W. S. | 255 |
| COERMANN, R. R. | 227, 255, 275, 291, 315 |
| COHEN, E. | 397 |
| CONKLIN, J. E. | 335 |
| CREAMER, L. R. | 217 |
| DUGGAR, B. C. | 131 |
| EDWARDS, W. D. | 59 |
| FOSS, F. A. | 93 |
| FREED, A. M. | 389 |
| HEIMBERGER, F. W. | 3 |
| HORNICK, R. J. | 301, 325 |
| HOWLAND, D. | 5 |
| HUFFORD, E. | 159 |
| HUMES, J. M. | 149 |
| JONES, G. P. | 17 |
| JONES, MARI R. | 355 |
| JORDAN, N. | 171 |
| KENNEDY, J. L. | 25 |
| KIDD, J. S. | 209 |
| KLEMMER, E. T. | 75 |
| LANGE, K. O. | 255, 275, 291, 315 |
| LIPPERT, S. | 179, 225 |
| MAGID, E. B. | 315 |
| MONTY, R. A. | 193, 201 |
| NICHOLSON, R. M. | 367 |
| OLSON, P. L. | 375 |
| PARKS, D. L. | 305 |
| RONCO, P. G. | 107 |
| SAWYER, H. L. | 107 |
| STEEDMAN, W. C. | 343, 349 |
| STENSON, H. H. | 149 |
| TEICHNER, W. H. | 181 |
| THOMAS, R. E. | 81 |
| WACHSLER, R. E. | 375 |
| WADE, E. A. | 401 |
| WHITE, G. H. | 275 |
| WOLIN, B. R. | 1 |